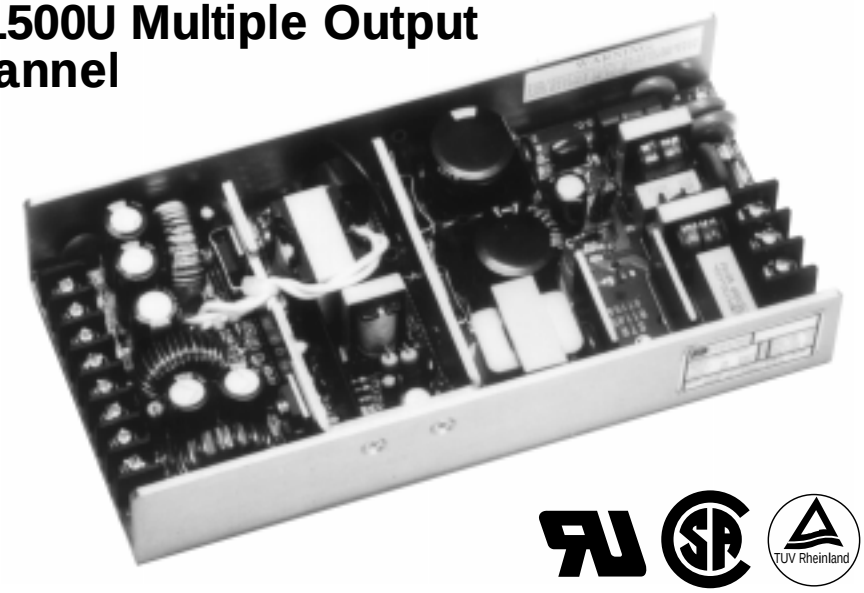
150W Auto-Ranging Industrial Series

PSA-1500U Multiple Output U-Channel



Features

- High efficiency
- Built-in EMI filter
- 100% Burn-in for 24 hours
- Small low profile package
- Short circuit protection
- Over voltage protection

Applications

- File servers
- Workstations
- Test equipment
- Industrial controls

Safety Approvals

- UL 1950
- CSA 22.2 1402C Level 3
- TUV EN 60950 (IEC 950)

Mechanical Characteristics

Dimensions:
- Length: 198.16mm (7.8in.)
- Width: 96.52mm (3.8in)
- Height: 38.1mm (1.5in)
- Weight: 0.86Kgs (1.89lbs)

Output Specifications

Model	DC Output Voltage	Load Min.	Load Max.	Load @30 CFM	Ripple P-P	Total Tolerance
PSA-1501U	+5V	3.0A	9.0A	15A	50mV	+1%
	+12V	0.2A	0.6A	1.0A	100mV	+6%
	-12V	0.2A	0.6A	1.0A	100mV	+6%
	+24V	0.6A	1.8A	3.0A	240mV	+6%
PSA-1502U	+5V	3.0A	9.0A	15A	50mV	+1%
	-15V	0.2A	0.6A	1.0A	100mV	+6%
	+15V	0.2A	0.6A	1.0A	100mV	+6%
	-5V	1.0A	3.0A	5.0A	100mV	+6%
PSA-1506U	+5V	3.0A	9.0A	15A	50mV	+1%
	+12V	1.2A	3.6A	6.0A	100mV	+6%
PSA-1507U	+5V	3.0A	9.0A	15A	50mV	+1%
	+12V	0.2A	0.6A	1.0A	100mV	+6%
	+12V	1.2A	3.6A	6.0A	100mV	+6%
PSA-1508U	+5V	3.0A	9.0A	15A	50mV	+1%
	-12V	0.2A	0.6A	1.0A	100mV	+6%
	+12V	0.4A	1.2A	2.0A	100mV	+6%
	-5V	1.0A	3.0A	5.0A	100mV	+6%
PSA-1509U	+5V	3.0A	9.0A	15A	50mV	+1%
	-5V	0.2A	0.6A	1.0A	100mV	+6%
	-12V	0.2A	0.6A	1.0A	100mV	+6%
	+12V	1.0A	3.0A	5.0A	100mV	+6%

(1) The maximum continuous output power shall not exceed 100 watts with convection cooling, and 150 watts with 30 CFM air cooling.

(2) Ripple & noise is measured at 20MHz bandwidth limit by using a 10in. twisted wire terminated with a 10µF capacitor in parallel with a 0.1µF ceramic capacitor.

PFING

ISO 9001 • BABT
Facility Approvals

150W Auto-Ranging Industrial Series

PSA-1500U Multiple Output U-Channel

Characteristics

AC Input Voltage
90-132/180-264VAC
(Auto ranging)

AC Frequency
47 to 63Hz

AC Input Current
4A maximum (115V)
2A maximum (230V)

AC Inrush Current
25A (115VAC)
50A (230VAC)

AC Leakage Current
0.75mA maximum
(240VAC 50Hz)

Efficiency
70% typical at full load,
120VAC

Hold-up Time
16msec. at full load, 120VAC

Switching Frequency
100KHz typical

Overvoltage Protection
5.5 to 7V (+5 Output)

Overcurrent Protection
Short circuit protected
Auto-restart

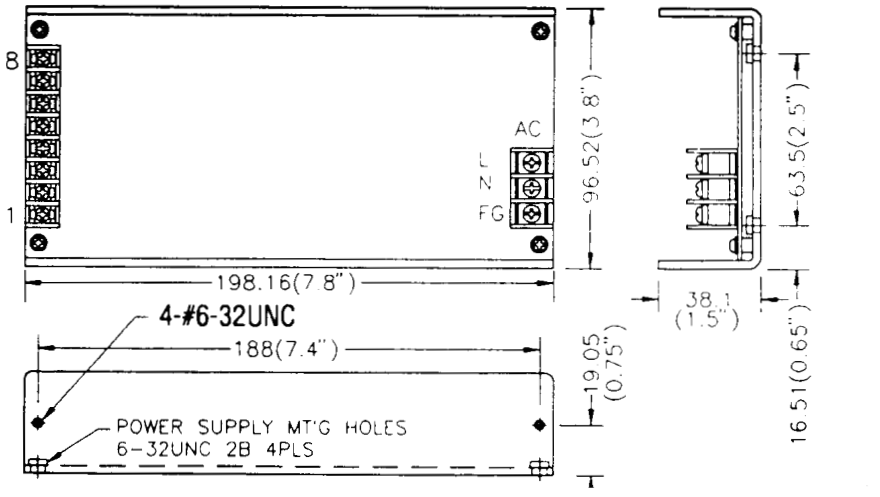
Temperature Range
Operating: 0 to 50˚C
Storage: -25 to 85˚C

MTBF
Calculated
Greater than 100,000 hours,
full load, 25˚C
(MIL-HDBK-217)

EMI Requirements
FCC class A
VDE 0871 class A
(Class B with external filter)

Mating Connectors
Screw terminals
(Consult factory for Molex style)

Dimension Diagram Unit: mm (inch)



Pin \ Model	PSA-1500U	PSA-1501U	PSA-1502U	PSA-1506U	PSA-1507U	PSA-1508U	PSA-1509U
1	+5V	+5V	+5V	+5V	+5V	+5V	+5V
2	+5V	+5V	+5V	+5V	+5V	+5V	+5V
3	RTN	RTN	RTN	RTN	RTN	RTN	RTN
4	RTN	RTN	RTN	RTN	RTN	RTN	RTN
5	-5V	+12V	-5V			-12V	-5V
6	+12V	-12V	+15V		+12V	+12V	-12V
7	RTN	RTN	RTN	RTN	RTN	RTN	RTN
8	+12V	+24V	-5V	+12V	+12V	-5V	+12V

PHIHONG

ENTERPRISE CO., LTD.

16, Lane 530, Chung Cheng N. Rd.
Sanchung City, Taipei
Taiwan 24103, R.O.C.
Phone: 886-2-988-2126
886-2-980-5255
Fax: 886-2-981-7086
886-2-983-3222

PHIHONG USA

Western Office:
48607 Warm Springs Blvd.
Fremont, CA 94539
Phone: (510) 445-0100
Fax: (510) 445-1678
Email: usasales@phihongusa.com
Internet: http://www.phihongusa.com

Eastern Office:
3005 Brodhead Road
Bethlehem, PA 18017
Phone: (610) 866-9911
Fax: (610) 866-9920